

CONTRAM™ ST-1/50

Biocide

Product Description

CONTRAM™ ST-1/50 is a highly concentrated industrial bactericide based on tetrahydrooxazines. Owing to its good solubility this preserving agent is suitable for oily as well as aqueous systems.

CONTRAM™ ST-1/50 is effective against gram-negative and gram positive bacterias. In order to get an additional efficiency against fungies we recommend using in combination with our CONTRAM™ J 20 or CONTRAM™ FKK.

Typical Properties

Aspect (visual)	Clear low viscous liquid
Colour (visual)	Colourless to slightly yellowish
Odour	Mild, nil in dilution
Density (g/cm ³) @ 20°C (DIN 51 757)	typ. 1.06
pH (10 g/l in water)	typ. 10.2
Active content (%)	typ. 50%
Refraction index @ 20°C	typ. 1.416
Viscosity (20°C, mm ² /s)	typ. 16
Solubility	Water soluble

Applications

CONTRAM™ ST-1/50 is successfully applied for the preservation, mineral oil containing, water miscible coolants.

For water based fluids based on a SOE-type we recommend to combine CONTRAM™ ST-1/50 with the emulsifier package LUBRIZOL® 5375 and for a semisynthetic metalworking fluid to combine with emulsifier package LUBRIZOL® 5683.

Compared to hexahydrotriazines and oxazolidines, CONTRAM™ ST-1/50 is more stable in metalworking concentrates.

CONTRAM™ ST-1/50 should be used at an addition level of 2 – 6% in a concentrate and at 0.3% in finished cutting fluid user dilutions, in order to have a concentration of 1,000 to 1,500 ppm of the active.

Other remarkable features:

- Low odour
- Low formaldehyde content
- Helps in the corrosion protection
- Very stable molecule
- Good compatibility and solubility
- Very good performance
- It can be used in fluids with pH of 3 to 12.

CONTRAM™ ST-1/50 is not compatible with acids and oxidizing agents.

Shelf Life

At least 12 months in original sealed containers. The product should be stored in steel or plastic containers, dry and at room temperature

Responsible Care

Please note: Use biocides safely. Always read the label and product information before use.

For complete safety, health, personnel protection and first aid information, please refer to the Material Safety Data Sheet (MSDS) that can be ordered via your local Lubrizol Metalworking representative or regional office listed on this data sheet. Product Data Sheets and MSDS's are also available online to registered users at www.mylubrizol.com.

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